CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NS/W.No.04/CSR-05/345f/CEMENT/2017-18 Date: 27.05.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivakumara,** No.96, Gandhinagara, KHB Colony, Yelahanka, Bangalore.
* Name of Work	:	Construction of RCC drain at Chikkabommasandra cross roads in Ward No.04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/2017-18 Dated: 25.05.2017
* Sample ID	:	Cement – Sample 2
Sample Received on	:	25.05.2017
Period of Testing	:	25.05.2017 to 27.05.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NS/W.No.04/CSR-05/345f/SAND-Gradation/2017-18 27.05.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. N. Shivakumara,** No.96, Gandhinagara, KHB Colony, Yelahanka, Bangalore.
* Name of Work	: Construction of RCC drain at Chikkabommasandra cross roads in Ward No.04, BBMP, Bangalore.
* Reference	: BBMP/AEE/YSTSD/83/2017-18 Dated: 25.05.2017
* Sample ID	: Fine Aggregates – Sample 2
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 25.05.2017
Date of Testing	: 27.05.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.10	90-100	90-100	90-100	95-100
2.36	75.20	60-95	75-100	85-100	95-100
1.18	54.20	30-70	55-90	75-100	90-100
600 Micron	25.20	15-34	35-59	60-79	80-100
300 Micron	10.20	5-20	8-30	12-40	15-50
150 Micron	6.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/NS/W.No.04/CSR-05/345f/AGG/GR/2017-18 27.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivakumara,** No.96, Gandhinagara, KHB Colony, Yelahanka, Bangalore.
* Name of Work	:	Construction of RCC drain at Chikkabommasandra cross roads in Ward No.04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/2017-18 Dated: 25.05.2017
* Sample ID	:	Coarse Aggregates (40mm) – Sample 2
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	25.05.2017
Date of Testing	:	27.05.2017

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.30	95-100	85-100
20	32.30	30-70	0-20
10	13.80	10-35	0-5
4.75	1.96	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/NS/W.No.04/Steel/2017-18

27.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivakumara,** No.96, Gandhinagara, KHB Colony, Yelahanka, Bangalore.
* Name of work	:	Constructions of RCC drain at Chikkabommasandra cross roads in Ward No.04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/2017-18 Dated: 25.05.2017
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	27.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	516	557	13.05	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NS/W.No.04/Steel/2017-18 27.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivakumara,** No.96, Gandhinagara, KHB Colony, Yelahanka, Bangalore.
* Name of work	:	Constructions of RCC drain at Chikkabommasandra cross roads in Ward No.04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/2017-18 Dated: 25.05.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	27.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	520	562	13.2	O.K	O.K

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* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivakumara,** No.96, Gandhinagara, KHB Colony, Yelahanka, Bangalore.
* Name of work	:	Constructions of RCC drain at Chikkabommasandra cross roads in Ward No.04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/2017-18 Dated: 25.05.2017
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	27.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	525	567	13.45	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/NS/W.No.04/CSR-05/345f/Cube/2017-18 26.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivakumara,** No.96, Gandhinagara, KHB Colony, Yelahanka, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkabommasandra cross roads in Ward No.04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/2017-18 Dated: 25.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.05.2017	26.06.2017	8.135	474.5	21.09
2	29.05.2017	26.06.2017	8.295	490.3	21.79
3	29.05.2017	26.06.2017	8.350	505.6	22.47

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Job No.: CTCE/BBMP/NS/W.No.04/CSR-05/345f/Cube/2017-18 26.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivakumara,** No.96, Gandhinagara, KHB Colony, Yelahanka, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkabommasandra cross roads in Ward No.04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/2017-18 Dated: 25.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.05.2017	26.06.2017	8.295	516.5	22.96
2	29.05.2017	26.06.2017	8.329	525.4	23.35
3	29.05.2017	26.06.2017	8.408	539.8	23.99

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T-2377

Job No.: CTCE/BBMP/NS/W.No.04/CSR-05/345f/Cube/2017-18 28.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivakumara,** No.96, Gandhinagara, KHB Colony, Yelahanka, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkabommasandra cross roads in Ward No.04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/2017-18 Dated: 25.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.05.2017	28.06.2017	8.221	489.6	21.76
2	31.05.2017	28.06.2017	8.328	513.5	22.82
3	31.05.2017	28.06.2017	8.418	526.5	23.40

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Job No.: CTCE/BBMP/NS/W.No.04/CSR-05/345f/Cube/2017-18

28.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivakumara,** No.96, Gandhinagara, KHB Colony, Yelahanka, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkabommasandra cross roads in Ward No.04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/2017-18 Dated: 25.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.05.2017	28.06.2017	8.266	485.5	21.58
2	31.05.2017	28.06.2017	8.329	491.3	21.84
3	31.05.2017	28.06.2017	8.415	502.5	22.33

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Job No.: CTCE/BBMP/NS/W.No.04/CSR-05/345f/Cube/2017-18

10.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivakumara,** No.96, Gandhinagara, KHB Colony, Yelahanka, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkabommasandra cross roads in Ward No.04, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/2017-18 Dated: 25.05.2017
* Sample ID	:	Culvert Deck Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2017	10.07.2017	8.257	515.3	22.90
2	12.06.2017	10.07.2017	8.335	525.4	23.35
3	12.06.2017	10.07.2017	8.405	539.8	23.99

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